



YES (Yield Engineering Systems, Inc.) is a leading manufacturer of high-tech, cost-effective equipment for transforming surfaces, materials, and interfaces at the nanoscale. From startups to the Fortune 50, our customers rely on YES solutions to unleash products that change lives -- from cellphones and IoT devices, to AI and virtual reality, to diagnostic tests for COVID.

As a preferred provider of wet and dry process technology, we look forward to talking with smart, energetic, team-oriented people who can grow with us. We provide competitive salary and benefits, including employee stock ownership, and some of the best co-workers you'll find anywhere. If this appeals to you, please read on!

**Job Title: Sr. Electrical & Controls Engineer (Systems Engineer)**

**Location: Fremont, CA**

#### **Key Responsibilities**

- Collaborate with electrical, mechanical, and software engineers to define design requirements, generate product specifications, and develop electrical subsystems.
- Define system testing and data collection to support measurable success criteria for various projects.
- Participate with risk assessments and FMEA process.
- Plan, develop, and analyze system integration.
- Troubleshoot a variety of complex electrical problems in engineering and production environments.
- Generate technical documentation for product release.
- Assist with defining robotic system requirements and platform integration.
- Deliver full engineering packages, and support manufacturing to ensure a smooth transition into mass production.
- Solve challenging engineering problems by characterizing components, designing/prototyping control systems, circuits, schematics, etc.

#### **Required Qualifications**

- **MUST HAVE** 5+ years of semiconductor industry experience.
- Experienced with distributed controls, chemical delivery, and vacuum systems.
- Team-oriented problem solver, with excellent organizational and communication skills.
- Proficiency and experience in AutoCAD, SolidWorks Electrical or similar packages.
- Ability to research and implement new technologies with minimal support.
- Familiarity with safety interlocks and general product safety requirements.
- Broad background in systems engineering (electrical, controls, software, automation, gas delivery systems).

- Ability to research and implement new technologies with minimal support.
- Control systems experience with PLC systems and various communications technologies (Ethernet, PowerLink, EtherCat, Mod-Bus, RS-485).
- Gas delivery controls design & documentation (flow control, interlocks, safe vs. hazardous).
- Able to create software to run test on control system platforms for motion , thermal and other types of simple controls.

#### **Preferred Qualifications**

- Previous experience creating code for running engineering test on PLC platform.
- Experience with various systems (chemical delivery, vacuum systems, pressure control, distributed IO).
- Product safety interlock design and international compliance experience.

#### **Compensation**

- YES offers a stimulating and fun working environment, competitive salaries and benefits, and company stock.

#### **Additional Information**

- Applicants must be currently authorized to work in the United States on a full-time basis.
- YES is an equal opportunity employer and values diversity. All employment is decided on the basis of qualifications, merit, and business need.
- YES prohibits discrimination and harassment of any type without regard to race, color, religion, age, sex, national origin, disability status, genetics, protected veteran status, sexual orientation, gender identity or expression, or any other characteristic protected by federal, state or local laws.

**Come find out why YES is such a great place to work. Apply today!**